(Government Aided Autonomous Institute)

Vishrambag, Sangli. 416 415



Credit System for

T.Y. B.Tech. (Civil Engineering)

Sem-V and VI

AY 2023-24



(Government Aided Autonomous Institute)

Credit System for T.Y. B.Tech. (Civil Engineering) Sem-V AY 2023-24

Sr.No.	Category	Course Code	Course Name	L		Р	1	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
			Professional Core (Theory						75.1	THE REAL PROPERTY.		
01	PC	6CV301	Water Supply and Treatment Technology	3	0	0	0	3	3	30	20	50	
02	PC	6CV302	Soil Mechanics	3	0	0	0	3	3	30	20	50	
03	PC	6CV303	Transportation Engineering	3	0	0	0	3	3	30	20	50	
04	PC	6CV304	Design of Steel Structures	3	0	0	0	3	3	30	20	50	
			Professional Core	(Lab)	411								
05	PC	6CV351	Water Quality Analysis Lab	0	0	2	0	2	1	30	30	40	POE
06	PC	6CV352	Soil Mechanics Lab	0	0	2	0	2	1	30	30	40	OE
07	PC	6CV353	Highway Materials and Traffic Engineering Lab	0	0	2	0	2	1	30	30	40	OE
08	PC	6CV355	Presentation and Report Writing	0	0	2	0	2	1	30	30	40	
	170-11-		Professional Elective	(Theor	y)								
08	PE	Refer List	Elective-1	2	0	0	0	2	2	30	20	50	
			Open Electiv	re e	J.F.							- 101	
09	OE	Refer List	Open Elective-1	3	0	0	0	3	3	30	20	50	
			Humanities										
10	HS	6HS301	Employability Skills 1	0	0	2	0	2	1	30	30	40	
11	HS	Refer List	Humanities-1	0	0	0	2	2	2	30	30	40	
			Total	17	0	8	4	29	25				

Notes:

For Theory courses: There shall be MSE, ISE and ESE. The ESE is a separate head of passing.

For Lab courses: There shall be continuous assessment (LA1, LA2, ESE). The ESE is a separate head of passing. The POE/OE indicates external component for ESE.

For further details, refer to Academic and Examination rules and regulations.

Dr. A. K. Mali

Department Academic Coordinator

Dr. G. R. Munavalli

Head, Department of Civil Engineering

Dr. Mrs. S. P. Sonavane

Dean Academic Cademics

Walchand College of Engg.

Page No. 05/13

Date: 12/07/2023

Walchand College of Engineering

(Government Aided Autonomous Institute)

Elective Course List for T.Y. B.Tech. (Civil Engineering) Sem-V AY 2023-24

Sr. No.	Track	Course Code	Course Name
Elective-1			
01	Transportation Engineering	6CV311	Remote Sensing and GIS
02	Environmental Engineering	6CV312	Plastic and Electronic Waste Management
03	Environmental Engineering	6CV313	Air and Noise Pollution Control
04	Infrastructure Engineering	6CV314	River Engineering
05	Infrastructure Engineering	6CV315	Advanced Surveying
06	Structural Engineering	6CV316	Structural Mechanics
07	Structural Engineering	6CV317	Advanced Concrete Technology
08	Infrastructure Engineering	6CV318	Airport Engineering

Sr.No.	Offering Dept.	Course Code	Course Name			
Open Elective-1						
01	Civil Engg.*	60E301	Building Planning and Construction			
02	Civil Engg.*	60E302	Disaster Management			
03	Applied Mechanics Dept *	60E315	Theory of structures			
04	Mechanical Engg.	60E329	Non-Conventional Machining Processes			
05	Electrical Engg.	60E343	Electrical Machine Technology			
06	Electronics Engg.	60E357	Introduction to Electronic Systems			
07	Electronics Engg.	60E358	Signals and Systems			
08	CSE Engg.	60E371	Data Science			
09	IT Engg.	60E385	Cloud Computing System			
10	IT Engg.	60E386	Joy of Python Programming			
11	IT Engg.	60E387	Data Science for Engineers			

Sr.No.	Course Code	Course Name			
Humanit	ies-1				
01 6HS303		German Language			
02	6HS304	French Language			
03 6HS305 Japanese Language					
04	6HS306	Introduction to Entrepreneurship			

^{*} Open Elective-1 offered by Civil Dept. is allowed for students of all other departments (Except Civil Dept.)

Dr. A. K. Mali Department Academic Coordinator

Dr. G. R. Munavalli Head, Department of Civil Engineering



Dr. Mrs. S. P. Sonavane
Dean Academics
Dean Academics



Page No. 06/13 Date: 12/07/2023

(Government Aided Autonomous Institute)

Credit System for T.Y. B.Tech. (Civil Engineering) Sem-VI AY 2023-24

Sr.No.	Category	Course Code	Course Name	Ļ	T	Р		Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
H. C.			Professional Core	(Theo	гу)						24. F F F		
01	PC	6CV321	Waste Management and Pollution Control	3	0	0	0	3	3	30	20	50	
02	PC	6CV322	Quantity Survey and Valuation	3	0	0	0	3	3	30	20	50	
03	PC	6CV323	Foundation Engineering	3	0	0	0	3	3	30	20	50	
04	рс	6CV324	Design of Reinforced Concrete Structures	3	0	0	0	3	3	30	20	50	
			Professional Cor	e (Lab)								
05	PC	6CV371	Sewerage and Sewage Treatment Lab	0	0	2	0	2	1	30	30	40	OE
06	PC	6CV341	Mini-Project 2: Estimating and Costing	0	0	2	0	2	1	30	30	40	OE
07	PC	6CV342	Mini-Project 3: Design and Drawings of Steel Structures	0	0	2	0	2	1	30	30	40	OE
	1001		Professional Electiv	e (The	ory)								
09	PE	Refer List	Elective-2	2	0	0	0	2	2	30	20	50	
			Professional Elect	ive (La	b)								interior.
09	PÉ	Refer List	Elective Lab 1	0	0	2	0	2	1	30	30	40	
ALEST HE			Open Electi	ve				N.	E4.				
10	OE	Refer List	Open Elective-2	3	0	0	0	3	3	30	20	50	
De la la			Humanitie	s							TEE I'S		THE STATE
11	HS	6CV377	Humanities-2 - Project Management	0	0	0	2	2	2	30	30	40	
11	HS	6HS302	Integrated/ Employability Skills-2	0	0	0	2	2	2				
			Total	17	0	8	4	29	25				

Notes:

For Theory courses: There shall be MSE, ISE and ESE. The ESE is a separate head of passing.

For Lab courses: There shall be continuous assessment (LA1, LA2, ESE). The ESE is a separate head of passing. The POE/OE indicates external component for ESE.

For further details, refer to Academic and Examination rules and regulations.

Dr. A. K. Mali

Department Academic Coordinator

Dr. G. R. Munavalli Head, Department of Civil Engineering Dr. Mrs. S. P. Sonavane

Page No. 07/13 Date: 12/07/2023

(Government Aided Autonomous Institute)

Elective Course List for T.Y. B.Tech. (Civil Engineering) Sem-VI AY 2023-24

Sr.No.	Track	Course Code	Course Name			
Professi	ional Elective-2					
01	Environmental Engineering	6CV331	Industrial and Biomedical Waste Management			
02	Environmental Engineering	6CV332	Advances in urban water distribution system			
03	Hydraulics and Water Resources Engineering	6CV333	Watershed Management			
04	Infrastructure Engineering	6CV334	Town and Country Planning			
05	Infrastructure Engineering	6CV335	Design of Masonry Structures			
06	Structural Engineering	6CV336	Advanced Structural Analysis			
07	Transportation Engineering	6CV337	Bridge Engineering			
Elective	Lab 1					
01	Structural Engineering	6CV372	Advanced Concrete Technology Lab			
02	Environmental Engineering	6CV373	Municipal Solid Waste Management Lab			
03	Infrastructure Engineering	6CV374	Design of Hydraulic Structure Lab			
04	Infrastructure Engineering	6CV375	Advanced Surveying Lab			
05	Infrastructure Engineering	6CV376	Foundation Engineering Lab			
06	Structural Engineering	6CV377	Concrete Technology Lab***			

Sr.No.	Offering Dept.	Course Code	Course Name
		Ope	n Elective-2
01	Civil Engg.*	60E308	Ecology
02	Civil Engg.*	60E309	Solid Waste Management
03	Applied Mechanics Dept *	6OE322	Maintenance and Rehabilitation of Structures
04	Mechanical Engg.	60E336	Basics of Automobile Engineering
05	Electrical Engg.	60E350	Industrial Automation
06	Electronics Engg.	60E364	Cyber Physical Systems
07	Electronics Engg.	60E365	Biomedical Engineering
08	CSE	60E378	Soft Computing
09	IT	60E392	Web Development and Applications
10	JT	60E393	Fundamentals of Machine Learning
11	AT.	60E394	Remote Sensing and Geographical Information Systems

^{*} Open Elective-2 offered by Civil Dept. is allowed for students of all other departments (Except Civil Dept.)

- for 2023-24 batch only

Dr. A. K. Mali Department Academic Coordinator

Dr. G. R. Munavalli Head, Department of Civil Engineering Dr. Mrs. S. P. Sonavane Dean Academics

Page No. 08/13

Date: 12/07/2023